

**What is claimed is:**

1. A fast plugging and rejecting device for a hard disk, comprising a upper cover, a bottom cover, a panel, a backside covering plate, a side covering plate, a guiding plate, an exiting button, an exiting mechanism and one or more connector, characterized in that:

5        said guiding plate positioned at the backside of said panel and comprising a guiding rail and a sliding way at a proper 10 position of one side of said guiding plate;

10        said one or more connector comprising a front and a back probe insulating bases which are combined together through a partition there between, wherein

15        said front probe insulating base comprises plural contacting holes, a circular inverted angle mounted at a front end of contacting hole, a probe mounted in said contacting hole, and a spring sleeved on a back end of said probe; and

20        said back probe insulating base is combined with said back end of said front probe insulating base and comprises a contacting wire set at a center thereof for contacting with said spring behind said probe;

25        said exiting mechanism comprising a body, a position measuring rod, an orientating element, a spring and a linking-up bar;

25        said body comprising a first sliding trough mounted at one

side of a front end thereof, wherein a guiding trough is mounted in said first sliding trough, an opening passed through a central portion thereof, and a second sliding trough mounted at one side of a back end thereof, wherein a blocking portion is set in 5 said second sliding trough;

10 said position measuring rod being a L-shaped rod, comprising a guiding pillar extending from a side thereof, and arranged in said first sliding trough of said body so as to protrude a front end thereof out of said sliding way of said 15 guiding plate, wherein said guiding pillar is arranged in said guiding trough of said body;

20 said orientating element comprising an inclined plane respectively on an upper and a bottom portions of one side thereof, an orientating bolt extending from a central portion of the side thereof, a circular hole mounted at the other side thereof, and a spring inside said circular hole, wherein said orientating bolt is arranged in said opening of said body and one end of said spring is rejected in said circular hole and the other end of said spring is rejected against said side covering plate;

25 and

30 said linking-up bar comprising two pushing bars respectively having an inclined plane at a front end thereof, and a rejecting portion positioned between said two pushing bars, wherein said pushing bars are arranged in said second sliding 25 trough of said body so as to protrude a back end of said

linking-up bar out of said body and a facet of said back end of said linking-up bar is contacted with said exiting button on said panel;

wherein said probe embedded in said contacting hole  
5 inside said connector is an elastic probe, so that said probe in said connector and a connecting head of said hard disk are conducted through a pressed contact there between when said hard disk is plugged therein, and said hard disk is exited by utilizing said exiting mechanism.

10 2. The fast plugging and rejecting device according to claim 1, wherein said sliding way of said guiding plate has a relatively larger upper space and relatively smaller lower space for being provided for said hard disk with different standard.

15 3. The fast plugging and rejecting device according to claim 1, wherein said front end of said probe is broadened for contacting and said spring is employed for ensuring a connection between said probe and said connecting head of said hard disk.

20 4. The fast plugging and rejecting device according to claim 1, wherein said inverted angle at said front end of said contacting hole corrects a connecting way of said hard disk so as to ensure a connection between said connecting head of said disk and said probe.